

**REMARKS**

This Amendment is submitted in reply to the Office Action dated January 4, 2005. Applicant respectfully requests reconsideration and further examination of the patent application under 37 C.F.R. § 1.111.

Upon entry of the foregoing Amendment, Claims 2-38 are pending in the application. Based on the following remarks, Applicant respectfully requests that the Examiner reconsider and withdraw all outstanding rejections.

**Previously Filed Information Disclosure Statement**

Enclosed is a copy of an Information Disclosure Statement that was mailed to the USPTO on December 10, 2004. Also, enclosed is a copy of the returned Acknowledgment Postcard. Applicant respectfully requests consideration of the Information Disclosure Statement. ✓

**Summary of the Examiner's Rejection**

Claims 2-38 were rejected under 35 U.S.C. 112 (second paragraph) as being indefinite for failing to particularly point out and distinctly claim the subject matter which the Applicant regards as the invention.

**Remarks regarding § 112 (second paragraph) rejection**

Claims 2-38 were rejected under 35 U.S.C. 112 (second paragraph) as being indefinite for failing to particularly point out and distinctly claim the subject matter which the Applicant regards as the invention. In particular, the Examiner rejected independent Claim 2 for the phrase "transmitting an impulse radio signal containing sensor related information" as being unclear in context in that it appears to be misdescriptive. Because, if the transmitted signal is a returned-wave sensor signal, then it can not contain "sensor related information" until it is reflected from a target. The Examiner also stated the same problem occurs in independent Claims 11 and 30.

Applicant respectfully traverses the §112 (second paragraph) rejection of independent Claims 2, 11 and 30. In particular, Applicant submits that the claimed terminology in independent Claims 2, 11 and 30 is clear that the impulse radio signal is not a returned-wave sensor signal. Instead, the claimed terminology in independent Claims 2, 11 and 30 is clear that the impulse radio signal which already contains the sensor related information is transmitted from a first ultra wideband carrier wave-less impulse radio unit to a second ultra wideband carrier wave-less impulse radio unit. This can be seen in the highlighted portion of independent Claim 2 (for example):

2. A monitoring device, comprising:

a sensor, said sensor detecting at least one condition within a building; and a first ultra wideband carrier wave-less impulse radio unit interfaced with said sensor, said first ultra wideband carrier wave-less impulse radio unit transmitting an impulse radio signal containing sensor related information to a second ultra wideband carrier wave-less impulse radio unit interfaced with a control station, wherein said sensor related information is used by the control station to control at least one device associated with said building.

As such, Applicant respectfully submits that it is an error to contend that the transmitted impulse radio signal is a returned-wave sensor signal that needs to be reflected from a target in order to obtain the sensor related information. Because, there is no text in the independent Claims 2, 11 and 30 that supports such an interpretation. In particular, the claimed terminology in independent Claims 2 and 11 is clear that the first ultra wideband carrier wave-less impulse radio unit is interfaced with a sensor which indicates that the first ultra wideband carrier wave-less impulse radio unit can obtain sensor related information. Thus, the claimed impulse radio signal does not need to be reflected from a target in order to obtain the sensor related information. Since, there is no support in the claimed terminology of independent Claims 2, 11 and 30 which can be used to maintain the Examiner's interpretation that the claimed impulse radio signal is or can be a returned-wave sensor signal which needs to be reflected from a target in order to obtain the sensor related information. The Applicant respectfully requests removal of the §112 (second paragraph) rejections to independent Claims 2, 11 and 30.

Moreover, Applicant is confused as to why the Examiner would make the aforementioned §112 (second paragraph) rejection. If, the Examiner somehow read dependent Claim 6 which states the following:

6. The monitoring device of claim 3, wherein said first ultra wideband carrier wave-less impulse radio unit implements radar capabilities of impulse radio technology to detect motion or detect the presence of the person.

to mean, that the first ultra wideband carrier wave-less impulse radio unit can only operate like a radar. Then, that is mistaken, the first ultra wideband carrier wave-less impulse radio unit can operate in a communication mode (see Claims 2, 11 and 30) and it can also in one embodiment operate in a radar mode (see Claims 6, 15 and 34). For a more detailed discussion about the capabilities of the first ultra wideband carrier wave-less impulse radio unit, reference is made to the paragraph starting on line 15, page 43 (for example) in the patent application.

**Conclusion**

From the foregoing, Applicant respectfully submits that all of the stated grounds of rejections have been properly traversed, accommodated, or rendered moot. Accordingly, Applicant respectfully requests reconsideration of all outstanding rejections and allowance of pending Claims 2-38.

If the Examiner believes, for any reasons, that personal communication will expedite prosecution of this application the Examiner is invited to telephone the undersigned at the number provided.

Enclosed is a USPTO Credit Card Payment Form filled out for \$ 60.00 to cover the fee for the one-month extension. If this is incorrect, the Commissioner is authorized to charge any fees which may be required for this paper to Deposit Account No. 50-1481.

Respectfully submitted,



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Patent Application  
Docket No. WJT001-0016C1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Jonnathan H. Kim

)  
Group No. 3662

Serial No.: 10/747,756

)  
Examiner: Not assigned

Filed: December 29, 2003

For: ULTRA-WIDEBAND SMART SENSOR INTERFACE NETWORK AND METHOD

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the  
United States Postal Service as first class mail in an envelope  
addressed to:

Commissioner for Patents,  
P.O. Box 1450  
Alexandria, VA 22313-1450

on December 10, 2004

Signature Will J. Tucker

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449. Attention is also directed to any item(s) designated below:

1. A check is enclosed to cover the fee set forth in 37 CFR 1.17(p). Any additional fee required by this paper may be charged to Deposit Account No. 50-1481.

2. The undersigned certifies that each enclosed document was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of the Information Disclosure Statement.

3. The relevance of any enclosed non-English language document(s) is concisely explained as follows.

Respectfully submitted,

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Form PTO-1449 Modified

List of Patents and Publications  
Cited by Applicant  
(Use several sheets if necessary)

U.S. Patent Department of Commerce  
Patent and Trademark Office

Docket No.: WJT001-0016C1

Serial No.: 10/747,756

Applicant: Jonnathan H. Kim

Filing Date: December 29, 2003 Group: 3662

**U.S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
	A-1	US 6,741,174	May 25, 2004	Rhoades et al.	340	540
	A-2					
	A-3					
	A-4					
	A-5					
	A-6					
	A-7					
	A-8					
	A-9					
	A-10					
	A-11					
	A-12					

Date Examined:

Examiner:



Docket - WJTO01-0016C1

Mailed: December 10, 2004

US Patent App - Ultra-Wideband Smart Sensor INTERFACE  
Network and Method

The following documents have been received by the USPTO  
on the date charged below:

- 1) Transmittal letter
- 2) IDS and PTO-1449 form
- 3) Acknowledged Postcard



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